

ABSTRACT

Tunneling systems and methods of making and using such systems for implanting biological devices, especially catheters, are described. The tunneling system of the invention contains flexible connection tunnelers that contain multiple connection features that are of dissimilar lengths. When used for a multiple lumen catheter, the connection features are easier to separate and are easier to connect with the lumens of the catheter that are in different positions relative to the tunneler. Thus, the tunneling system contains a non-destructive connection between the catheter tip and the tunneler, as well as allowing for greater control during placement of the catheter.